Extending the Impact of Technovation on Armenian School Girls

The Technovation Project Team: Justin Cheng, Alyssa Mesaros, Brianna Owen, Lucas Sacherer
The STEM gender disparity is prevalent around the world

1 in 7 engineers is female.
- US Department of Commerce

19% of engineers in Canada, Germany, and the US are women.
- UNESCO

16.7% of specialists in ICT are women.
- European Data Journalism
The gender gap persists in Armenia’s ICT sector

Female Workers in ICT

Female Leaders in ICT

Percentage

Women

Men
Technovation Curriculum Roadmap

12-Week Plan

Start
Make a Team & Find a Mentor

W1
IDEATION

W2
CODING, BUS

W3
CODING, BUS

W4
CODING, BUS, MKT

W5
CODING, BUS, MKT

W6
CODING, MKT

W7
CODING, MKT, PITCH

W8
CODING, MKT, PITCH

W9
CODING, BUS, PITCH

W10
CODING, BUS, PITCH

W11
CODING, BUS, PITCH

W12
CODING, BUS, PITCH

Finalize & Submit

Finish
Technovation provides an opportunity to fill an unmet need in Armenia’s tech education
Technovation Armenia has made great progress since its introduction.
Continued engagement is vital to the program’s success
To address this issue, the team was tasked to...

Identify opportunities to further motivate and support the Technovation girls to continue the development of their personal, professional, and technical skills.
Approach & Methods
Investigation of Technovation Armenia and Other Organizations

1. Survey Past Participants
2. Interviews
3. Literature Research
4. Interviews

- Identify Post-Program Opportunities
- Identify Best Practices

5. Create Recommendations

6. Validate and Revise
Technovation Armenia Participant Research

Survey Past Participants

Interviews

Identify Post-Program Opportunities
In our investigation we made contact with...
Best Practices from Other Programs & Technovation Branches

- Literature Research
- Interviews

Identify Best Practices
In our investigation we made contact with...
Synthesis and Validation of Recommendations and Implementation Plans
Findings & Recommendations
The sudden growth of Technovation Armenia has led the program to experience typical growing pains.
Customized maturity model for Technovation Armenia

Stage 1: Initial
- Ad hoc organizational system
- Overextended resources

Stage 2: Managed
- Initial formation of structured processes
- Preliminary development of funding approach & administrative roles

Stage 3: Standardized
- "Core Team" organizational structure
- Administrative structure and roles are more concrete
- Funding process/approach is finalized

Stage 4: Predictable
- Stable organizational structure
- Established roles with specific duties and tasks
- Funding approach is consistent and sustainable

Stage 5: Innovative
- All processes and models are fully mature
- Ability to measure feedback and adapt
- Consistent resources to support innovative thinking/teaching
- Funding approach is now adaptable to the capacity of the organization
A Mentor Community of Practice will reduce high administrative workload and foster mentor growth

N: Narine
M: Mentor
Mod: Moderator
CoP: Community of Practice
Connecting professionals with the teams through an ideation program will enhance the Technovation experience.

- Fill out Form
- Match with Professional
- 1 on 1 Feedback
- Improved Personal and Professional Skills
- Improved Projects
- Build Network
A centralized resource pool will provide all participants with the same opportunities and resources for continuation.
A Networking Workshop will provide the skills to expand the networks of the Technovation Armenia community
The Alumni Facebook group will provide Technovation with the foundation to build their alumni community.

- **1. Alumni Facebook Group**
- **2. Alumni Panels**
- **3. Fundraising Events and Campaigns**
Evaluating the performance of Technovation will allow for continuous program improvement
A pilot program could introduce Active Learning to the weekly classes in 2020
A pilot program could introduce Active Learning to the weekly classes in 2020.
A cost-impact chart was created to organize our implementations.
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A resource and funding prospectus was provided to our sponsor

In order for more success stories to come, the sustainability of Technovation Armenia, the need...

Monetary Assistance
- Will provide the regional ambassador more wiggle room to cater to the regions needs.
- Allows the option of adding more staff members to assist with the program.

Professional Sponsorship and Mentorship
- Spark partnerships between Technovation Armenia and the second party.
- Encourages the participants to start building a professional network.
- Provides participants real life examples of what their futures may hold.

Volunteers
- Involving more people expands the organizations to different demographics.
- Creates an opportunity for the participants, along with volunteers to create personal and professional relationships.
- Contributes to the idea of a core team and extended team model.

Next year’s annual budget will allow the organization to grow. Added administrators, along with new equipment, will improve participants’ program experience.

Please Support W&IS to Help Create Our Vision!
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Thank You

The WPI Technovation Project Team

gr-techgirls-d19@wpi.edu